(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 3 February 2005 (03.02.2005)

PCT

(10) International Publication Number WO 2005/00995 A1

- (51) International Patent Classification⁷: C07D 409/12, A61P 11/00, 37/00, A61K 31/4436, C07D 409/14, 471/04, 417/14, 413/14
- (21) International Application Number:

PCT/IB2004/002380

- (22) International Filing Date: 13 July 2004 (13.07.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0317498.4

25 July 2003 (25.07.2003) GB

- (71) Applicant (for GB only): PFIZER LIMITED [GB/GB]; Ramsgate Road, Sandwich, Kent CT13 9NJ (GB).
- (71) Applicant (for all designated States except GB): PFIZER INC. [US/US]; 235 East 42nd Street, New York, NY 10017 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BARBER, Christopher, Gordon [GB/GB]; Pfizer Global Research and Development, Ramsgate Road, Sandwich, Kent CT13 9NJ (GB). BUNNAGE, Mark, Edward [GB/GB]; Pfizer Global Research and Development, Ramsgate Road, Sandwich, Kent CT13 9NJ (GB). HARVEY, John, Wilson [GB/GB]; Pfizer Global Research and Development, Ramsgate Road, Sandwich, Kent CT13 9NJ (GB). MATHIAS, John, Paul [GB/GB]; Pfizer Global Research

and Development, Ramsgate Road, Sandwich, Kent CT13 9NJ (GB).

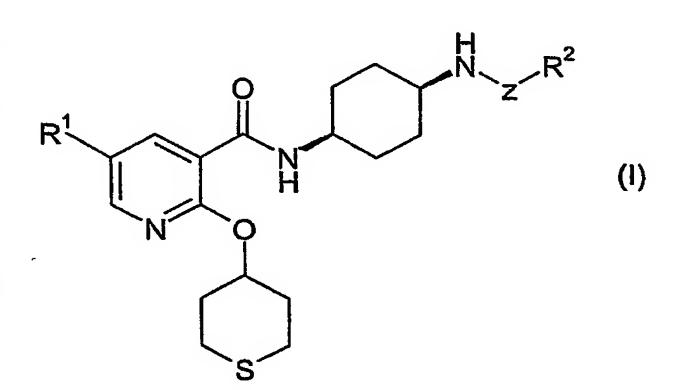
- (74) Agents: WOOD, David, J. et al.; Pfizer Research and Development, Ramsgate Road, Kent, Sandwich CT13 9NJ (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NICOTINAMIDE DERIVATIVES USEFUL AS PDE4 INHIBITORS



(57) Abstract: This invention relates to nicotinamide derivatives of general formula (I), in which R¹, Z and R² have the meanings defined herein, and to processes for the preparation of, intermediates used in the preparation of, composition containing and the uses of such derivatives.

WO 2005/009995 A1